FCC Form 352
December 1973

UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RENEWAL & MODIFICATION
STANDARD BROADCAST STATION LICENSE
ALTERNATE AND AUXILIARY TRANSMITTERS

File No.: BR-2657
Fac ID: 53130
Call Sign: KGSO

Subject to the provisions of the Communications Act of 1934, subsequent Acts, and Treaties, and Commission Rules made thereunder, and further subject to conditions set forth in this license, [1] the LICENSEE

WICHITA BROADCASTING, INC.

is hereby authorized to use and operate the radio transmitting apparatus hereinafter described for the purpose of broadcasting for the term ending 3 a.m. Local Time JUNE 1, 1977

The licensee shall use and operate said apparatus only in accordance with the following terms:

1. On a frequency of 1410 kHz.
2. With nominal power of 1 kilo watts nighttime and 5 kilo watts daytime,
   with antenna input power of 1.08 Kilo watts -- directional antenna nighttime ..... Common Point current 4.56 amperes; Common Point resistance 52 ohms,
   and antenna input power of 5.4 kilo watts -- directional antenna daytime ..... Common Point current 8.66 amperes; Common Point resistance 72 ohms
3. Hours of operation: Unlimited Time.
   Average hours of sunrise and sunset:
   Jan. 7:45 am to 5:30 pm; Feb. 7:15 am to 6:00 pm;
   Mar. 6:45 am to 6:30 pm; Apr. 6:00 am to 7:00 pm;
   May 5:15 am to 7:30 pm; June 5:00 am to 7:45 pm;
   July 5:15 am to 7:45 pm; Aug. 5:45 am to 7:30 pm;
   Sep. 6:15 am to 6:45 pm; Oct. 6:30 am to 6:00 pm;
   Nov. 7:15 am to 5:15 pm; Dec. 7:45 am to 5:15 pm;
   Central Standard Time (Non-Advanced).

   AUXILIARY: 1 kw DA-Night & Day
   Common Point Current 3.87 amps
   Antenna Input Power 1.08kw
4. With the station located at: Wichita, Kansas
5. With the main studio located at:
   2029 Salina Avenue Near
   Wichita, Kansas
6. The apparatus herein authorized to be used and operated is located at:
   2029 Salina Avenue Near
   Wichita, Kansas
   North Latitude: 37° 44' 05"
   West Longitude: 97° 21' 00"
7. Transmitter(s): COLLINS, 21-A (Main Day-Alternate Night)
   GE, ET-1-A (Alternate Night-Auxiliary Day)

   other transmitter currently listed in the Commission's "Radio Equipment List, Part B, Aural Broadcast Equipment" for the power herein authorized).
8. Obstruction marking specifications in accordance with the following paragraphs of FCC Form 715: 1, 3, 11 & 12.
9. Conditions: --

The Commission reserves the right during said license period of terminating this license or making effective any changes or modification of this license which may be necessary to comply with any decision of the Commission rendered as a result of any hearing held under the rules of the Commission prior to the commencement of this license period or any decision rendered as a result of any such hearing which has been designated but not held, prior to the commencement of this license period.

This license is issued on the licensee's representation that the statements contained in licensee's application are true and that the undertakings therein contained so far as they are consistent herewith, will be carried out in good faith. The licensee shall, during the term of this license, render such broadcasting service as will serve public interest, convenience, or necessity to the full extent of the privileges herein conferred.

This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequency designated in the license beyond the term hereof, nor in any other manner than authorized herein. Neither the license nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This license is subject to the right of use or control by the Government of the United States conferred by Section 606 of the Communications Act of 1934.

[1] This license consists of this page and pages 2, 3, & 4.

Dated:

FEDERAL COMMUNICATIONS COMMISSION

File No.: BR-2657 *Call Sign:* ~~K-W-B-B~~ KGSO *Date:* 12-13-74 FACILITY: 53150

1. DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM DA-2

No. and Type of Elements: Five uniform, cross section, guyed, series excited, vertical, steel radiators.

Height above Insulators: 175' (90°)

Overall Height: 180'

Spacing and Orientation: Four towers in a form of a parallelogram, the long sides of which are 500' (258°) on lines bearing 75° true. The short sides are 174.4' (90°) in length on lines bearing 35° true. Tower #2 is 21.26' (11°) from the center of this line bearing 132° true. Tower #5 spaced 346.26' (178.6°) from tower #3 on a line bearing 222° true.

Non-Directional Antenna: None used.

Ground system consists of 120-175' equally spaced, buried, copper radials about the base of each tower. Intersecting radials are shortened and bonded midway between adjacent towers.

2. THEORETICAL SPECIFICATIONS

	Tower	SW(#1)	SE(#2)	NE(#3)	NW(#4)	S(#5)
Phasing:	Night	0°	18°	128°	110°	
	Day		2°	115°		-115°
Field Ratio:	Night	1.0	.550	.846	1.540	
	Day		1.0	.378		.581

3. OPERATING SPECIFICATIONS

Phase Indication*:	Night	0°	37.1°	139.9°	117.1°	
	Day		0°	112.3°		-136.4°
Antenna Base Current Ratio:	Night	1.0	.539	.720	1.465	
	Day		1.0	.578		.462
Antenna Monitor Sample Current Ratio:	Night	1.0	0.549	0.806	1.452	
	Day		1.0	0.564		0.452

*As indicated by Delta Electronics DAM-1 antenna monitor.

Field measuring equipment shall be available at all times, and the field intensity at each of the monitoring points shall be measured at least once every seven days and an appropriate record kept of all measurements made.

DESCRIPTION OF AND FIELD INTENSITY AT MONITORING POINTS:

Direction of 32° true North. From KWBB proceed North .2 mile to 29th St., Turn east on 29th St. 0.9 mile to Broadway. Drive north on Broadway 1.1 miles to 53rd St. Drive east on 53rd St. 1.2 miles to a driveway into a field on the north side of 53rd St. The distance from the antenna 3.75 miles. The field intensity measured at this point should not exceed 7.9 mv/m, Day.

Direction of 65° true North. From KWBB proceed north .2 mile to 29th St. Drive east on 29th St. 0.9 mile to Broadway. Drive north on Broadway 1.5 mile to 37th St. Drive east on 37th St. 2.0 miles to Hillside Ave. Drive .1 mile north on Hillside Ave. to point on east side of avenue. Distance from antenna 3.15 miles. The field intensity measured at this point should not exceed 9.3 mv/m Day.

Direction of 134° true North. From KWBB proceed north .2 mile to 29th St. Drive east on 29th St. 0.9 mile to Broadway. Drive south on Broadway 1.7 miles to 15th St. Drive east on 15th St. 0.75 mile to Schinlen Park. The monitoring point is approximately 200 ft. south of 15th St. and 200 ft. west of Canal. Distance from antenna 2.26 miles. The field intensity measured at this point should not exceed 12 mv/m, Day.

Direction of 27° true North. This monitoring point is the same as measurement point No. 216. From the transmitter go east on 29th St. for 0.9 mile to Ave. H. Turn north for 3.0 miles to an east-west road. Turn right and proceed east for 0.8 mile to the monitoring point. The point is in the middle of the road in line with a fence line on the south side of the road just east of a windmill on the south of the road. The point is 0.75 mile west of a cement culvert. Distance from antenna 3.6 miles. The field intensity measured at this point should not exceed 8.7 mv/m, Night.

Direction of 35° true North. This is the same as measurement point No.304. From the point 216 go east 0.6 mile to the monitoring point. The point is in the middle of the road in line with two twelve foot poles on the south side of the road. The distance from the antenna is 3.9 miles. The field intensity measured at this point should not exceed 24.3 mv/m, Night.

Direction of 75° true North. This point is the same as measurement point No. 502. From point 410 proceed west for 0.7 mile to an intersection. Turn south for 1.55 miles, 0.05 mile south of road west. The monitoring point is in an open field 200 ft. west of the road. Distance from antenna 2.85 miles. The field intensity measured at this point should not exceed 20.5 mv/m, Night.

DESCRIPTION OF AND FIELD INTENSITY AT MONITORING POINTS: (Cont'd)

Direction of 130° true North. This point is the same as measurement point No. 709. From point 502 proceed south on the same road for 4.45 miles to Kellogg Ave. in Wichita. Turn east on Kellogg for 1.2 miles to the driveway into the Veterans Hospital. Turn left onto this driveway for 0.15 mile to the east corner of the east wing of the main building. The monitor point is in an open field 100 ft. south of the driveway and in line with the eastedge of the east wing. Distance from antenna 2.85 miles. This is the first good measurement point location of the 130° radials. The field intensity measured at this point should not exceed 9.1 mv/m, night.

Direction of 191° true North. This point is the same as measurement point No. 1122. From point 709 go west on Kellogg Ave. for 1.8 miles to Hillside St, north on Hillside for one mile to Central Ave., west on Central for 3.0 miles to Stackman Dr. Turn north on Stackman for 0.2 mile to Pine St. west 0.2 mile to Woodrow St. north one block to Murdock St. and west one block to the intersection of Murdock and Colliidge. The monitor point is 150 ft. south of the south sidewalk on Murdock, in line with the sidewalk on the east side of Colliidge St. The distance from antenna 2.6 miles. The field intensity measured at this point should not exceed 26.5 mv/m, Night.

Direction of 217° true North. This point is the same as measurement point No. 1206. From point 1122, go north on Colliidge for 0.7 mile to Parker, west on Parker for 2.1 miles to Ash Street, south 3.0 miles on West Street to Maple, and west on Maple for 0.6 mile to Clara St. The monitor point is 200 ft. north of the north line of Maple, on the center line of Clara St. Distance from antenna 4.7 miles. The field intensity measured at this point should not exceed 24.4 mv/m, Night.

Direction of 295° true North. This point is the same as measurement point No. 1401. From point 1207, go north 3.4 miles to an intersection. Turn right and go east 2.5 miles to a road left. Turn north for one mile to Hwy. 96. Go west on 96 for 0.5 mile. North on 96 for 0.25 mile to a culvert leading to an open field on the east side of the highway. The monitoring point is 200 ft. east of Hwy. 96 in the open field. Distance from antenna 1.2 miles. The field intensity measured at this point should not exceed 71.5 mv/m, Night.